

くらし・化わる生活想造企業シャープ化学

One component moisture cure type Modified Silicone Sealant

Product Name SHARPIE Modified Silicone NB-LM

One-component type, modified silicone, Non-bleed, Low Modulus Applicable to joints of ceramics sidings and ALC. Outstanding weatherability and thermal properties. Not only without finish, even with finish (including clear finish) long-lasting esthetic performance is expected . Certified with JIS A 5758 type F12.5E-8020(MS-1)

Advantages

- Paintable Keep the overcoated paint elegant
- ♦ BEST50's, best 50 selections
- ♦ Low-modulus type
- Remarkable weatherability and durability
- Stable adhesion Please match up with recommended primer

Application

- Joints of ceramics-sidings
- Joints of wooden panels
- Joints of metal-sidings
- Joints of ALC

Technical Product Data

Product Name SHARPIE Modified silicone NB-LM	
Sealant Classification	JIS A5758 F-12.5E-8020(MS-1)* JIS certification No. CE0508023
Consistency	Pasty
Main Component	Special Modified silicone polymer

Based on JIS A 5758 & JIS A 1439

Viscosity (Pa·s, 10rpm) 23°C	300 ~ 500	Cure Rate	Days of curing skin to 5mm
Density (g / ml)		1.35	5°C, 50%RH	more then 10d
Skin over time (min.)	23°C	60	23°C, 50%RH	approx.2d~3d
Nonvolatile (%)		95.1	50°C, 50%RH	approx.1d~2d
Extrudability (sec.)	23°C	3~5		
Service Temperature		-20°C ∼ 90°C		

Cured property after 23°C*7days

65
0.12
0.70
700
9
no failure
no failure
no failure
Pass





MSC1-03 JSIAF☆☆☆☆

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Tensile Properties

Item Cure condition	Test condition	50% Tensile stress (N/mm ²)	Maximum tensile stress (N/mm ²)	Elongation at break (%)	
After curing	23°C	0.10	0.70	550	With primer P-50 Substrate :
After heating (80°C)	23°C	0.16	0.70	530	Aluminum
After immersion in water	23°C	0.10	0.35	500	

Based on ASTM C920: 2008

Item / Property	Method	Result	Details
Class	C920	Class 25	
Туре		Type S	
Grade		Grade NS	
Rheological (Flow)	C639	Vertical: 0mm sag	
		Horizontal: No deformation	
Extrudability	C1183	>10ml/min	
Hardness	C661	25	Durometer Shore A
Tack-Free Time	C679	Pass	
Adhesion & Cohesion Under Cyclic Movement	C719	No bond failure	
Effects Of Heat Aging	C1246	1.0%	No cracking and chalking
Effects Of Accelerated Weathering	C793	No cracks after UV exposure and bend test	
Adhesion-In-Peel	C794	40.1 N (9.0 lbf)	
Staining	C1248	No surface stain	The primer was applied onto the substrates and allowed to dry till tack-free before application of the sealant.

Fungal Resistance

Test micro-organisms: Aspergillus niger(ATCC 6275) ; Penicillium pinophilum(ATCC 36839); Paecilomyces variotti(ATCC 18502); Chaetomium globosum(ATCC 6205); Gliocladum virens(ATCC 9645) Adopted ISO 846 : 1997 Plastics-Evaluation Of The Action Of Micro-Organisms; Section 8.22 : Determination Of Fungistatic Effect (Method B)

Fungal resistance	Intensity of growth on	NOTE		
Inoculated test samles	0(None)	under standard temperature and moisture conditions without inoculation		
Control samples	0(None)	inoculated with micro-organisms and incubated		
Sterile samples	0(None)	under standard temperature and moisture conditions without inoculation		
Viability Check	Growth			
Chemical Resistance)			
Household bleach	No effect	Adopted ANSI Z124.3: 1995; (Section 5.2)		
Urine/urea(6% uric acid)	No effect			

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Notice

- •The surfaces to be bonded must be dry,
- free of oil, dust , grease and other contaminants.
- NO operation when it rains or snows.
- CAN NOT operated on asphalt.
- •NO application on the surface which contained volatile.
- •DO NOT operated too thin.
- ●Before operation, wooden corrosion should be removed. ●CAN NOT adhere to marble and glass.

Recommend primer

Recommend Substrates	Product Name	NOTE
_	SHARPIE Primer P-32	Non yellowing (Weather Resistance)
Concrete, metal, wood	SHARPIE Primer P-50	Non yellowing(weather resistance)

Paintability

General reference. During primer or paint difference, confirmation request.

Classified	General	Adhesion	Non-stain	
Single layer finish	Acrylic resin lithin	0	0	For waterbase , be aware of water repellency
	Elastic lithin	0	0	Adhesion
Multi-layer finish	Acrylic silicone	\bigcirc	O	O:Good ∆:Normal
	Elastic spray lithin (waterproof)	\bigcirc	Ô	× :Bad
Thick layer finish	Synthetic stucco	0	\bigcirc	
Waterbase paint		0	0	Non-stain ©:Excellent
Solventbase paint		0	0	O: Good
Oilbase paint		×	×	Δ : Slight(not effected)

Do NOT applied on oilbase or phthalic oxidatively-polymerized paint

How to use

Please operate the product according to following procedure

- 1. Pre-study and preparation
- 2. Pre-check
- 3.Seam/surface dust free and dried
- Setup holder and accessaries
- 5.Setup the masking tape
- 6. Apply primer (primer tack-off time: 30min/20°C)

Attention

·Keep away from heat/sparks/static electricity/open flames/hot surfaces. No smoking. •Do not breathe dust/fume/gas/mist/vapours/spray.

·Wear protective gloves/protective clothing/eye protection/face protection. ·Avoid release to the environment.

IF SWALLOWED: Rinse mouth.

IF exposed or if you feel unwell: Immediately call a POISON CENTER or doctor/physician.



·IF skin or eye contact occurs immediately flush with water for 15 minutes. And call a POISON CENTER or doctor/physician.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

 \bigcirc Load the sealant into a caulking gun

(9). Use a spatula to finish the joint.

1. Remove the masking tape

·Keep out of reach of children

· Storage in a dark cold place. Keep away from sunshine.

 Construction and Industrial use ONLY ·See SDS for detailed description.

(1).Clear up around

12. Check the operation

(8).Apply



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Usage amount

The length(m) of sealant operation per a 320ml cartridge

D W	10mm	15mm	20mm	25mm	30mm	Loss rate 20%
10mm	2.6	1.8	1.3			W: width.
15mm			0.9	0.7	0.6	D: depth.

The length(m) of primer operation per a 500g can

D W	10mm	15mm	20mm	25mm	30mm	Loss rate 30%
10mm	175	175	175			W: width.
15mm			116	116	116	D: depth.

Porous surface (concrete): about half length of non-porous surface.

Packaging

Sealant

Sharpie Modified Silicone NBLM · · · · 320ml cartridge x10 /box 2boxes /bale
 \diamond Color:BEST50' selection for ceramics-sidings

Primer

Sharpie primer P-50 · · · 500g/can

★The data above, due to different materials and conditions of application which are beyond our knowledge and control we strongly recommend carring out sufficient tests in order to ensure that our products are suitable for the intended process and applications. Except for wilful acts any liability based on such recommendations or any oral advice is hereby expressly excluded.

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